ITT

SERVICE-INFORMATION

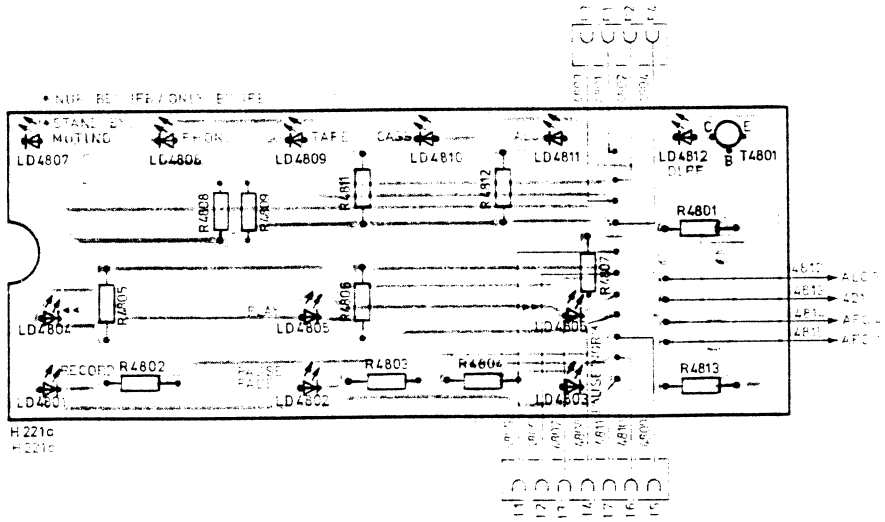
HC 9071

Typ 5253 11 01
SILBER/SCHWARZ

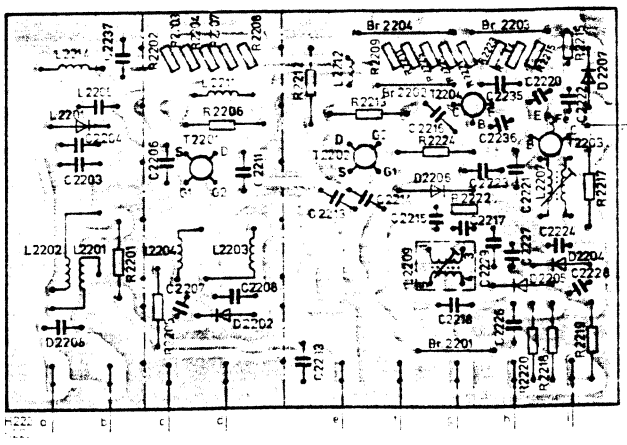
Leiterplatten – Printed Boards
Frequenzzähler-Schaltbild
Frequency Counter Circuit Diagram
Recorder-Ersatzteile-Liste
Recorder Replacement Parts

Zweifarbiger Servicedruck auf der Lötseite der Leiterplatten:
Two-coloured service print on solder side of boards:

	gelb / yellow	Quelle einer Betriebsspannung / source of an operating voltage
52 V	weiß / white	Betriebsspannung / operating voltage
	gelb / yellow	Verlauf einer Betriebsspannung nach der Quelle / path of an operating voltage from the source
	weiß / white	Verlauf einer Spannung nach weiteren Siebgliedern, Sicherungen usw. / path of an operating voltage, following filter sections, fuses, etc.
12 V	weiß / white	Spannungsmeßpunkte, die bestimmte Meßbedingungen und Betriebszustände voraussetzen / voltage measuring points requiring special measuring and operating conditions
▶	weiß / white	Signalweg (HF/ZF/NF) / signal path (RF/IF/NF)
	weiß / white	Drahtbrücke / jumper wire
FM-TUNER	gelb / yellow	Stufenbezeichnung / stage designation



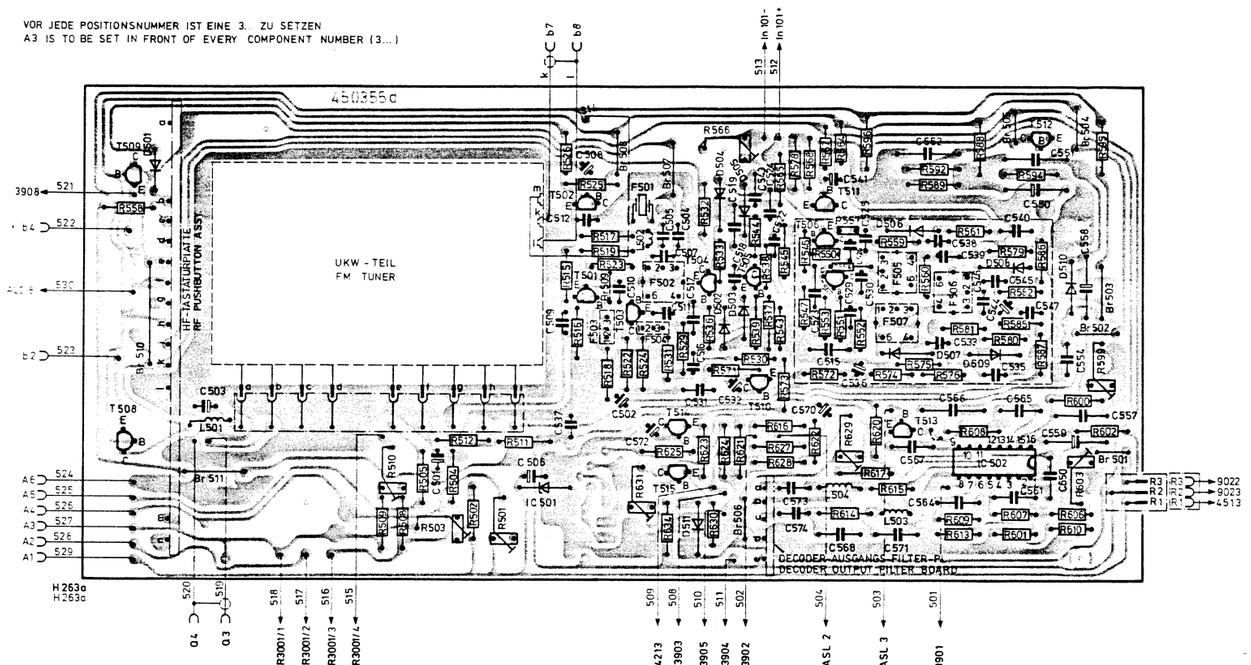
NF-Bereichsanzeige-Platte
AF Band Indicator Board



UKW-Platte
FM Board

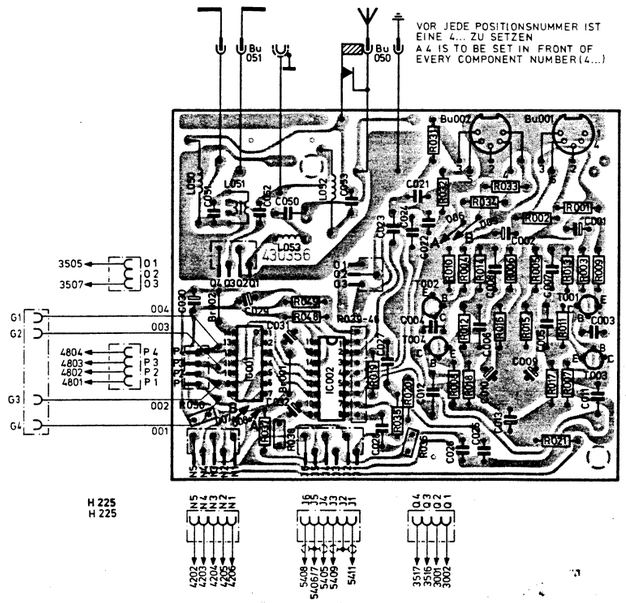
Bei Reparaturen gültige Sicherheitsvorschriften beachten.

VOR JEDE POSITIONSNUMMER IST EINE 3.. ZU SETZEN
A3 IS TO BE SET IN FRONT OF EVERY COMPONENT NUMBER (3...)

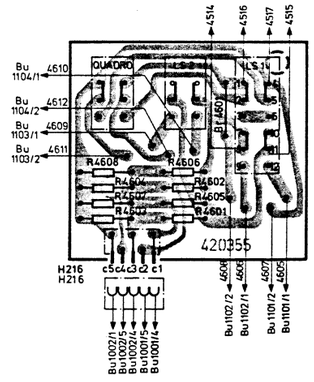


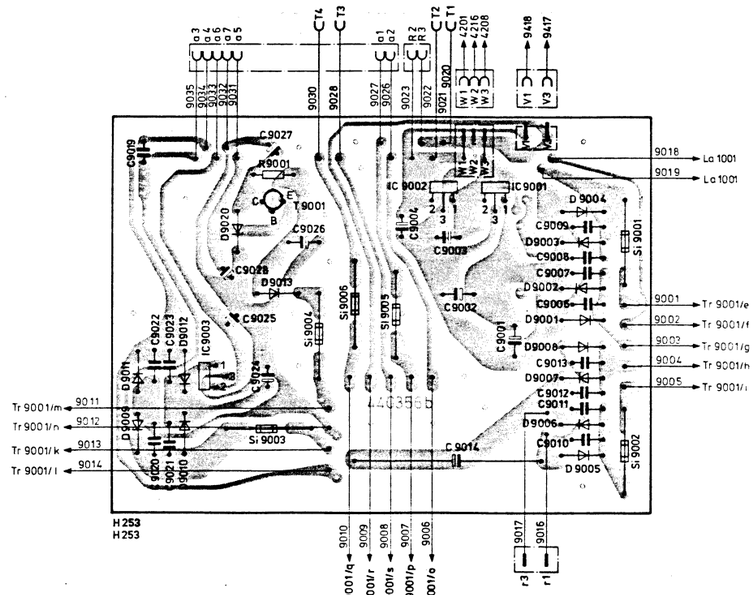
ZF-Platte
IF Board

NF-Buchsen-Platte
AF Sockets Board



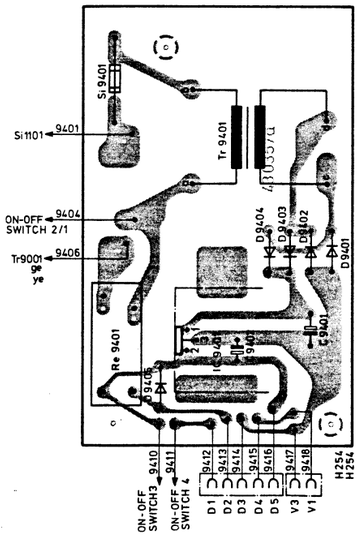
NF-Tastatur-Platte
AF Pushbutton Assy. Board





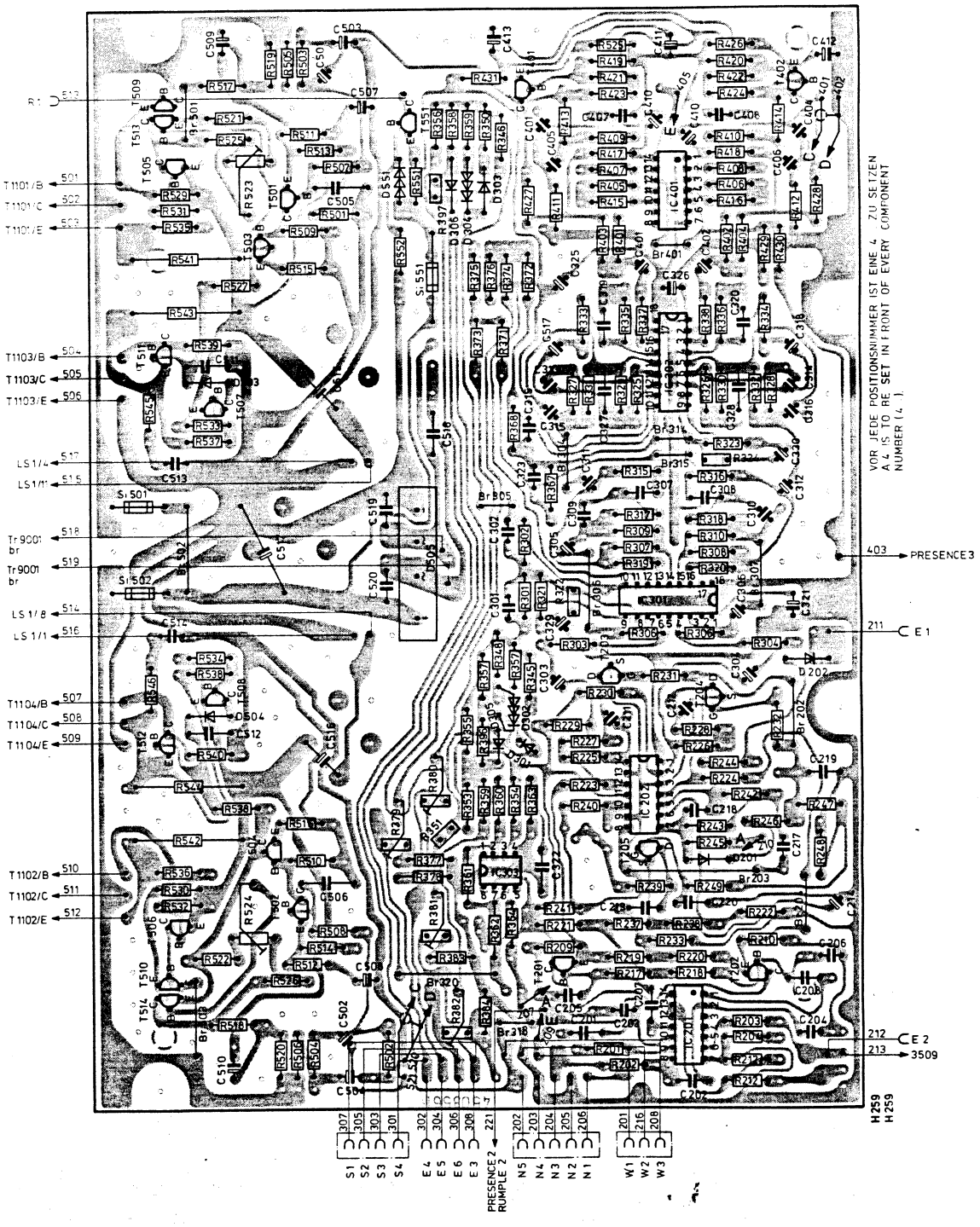
Netzteil-Platte
Power Supply Board

Stand-By-Netzteil-Platte
Stand-By Power Supply Board

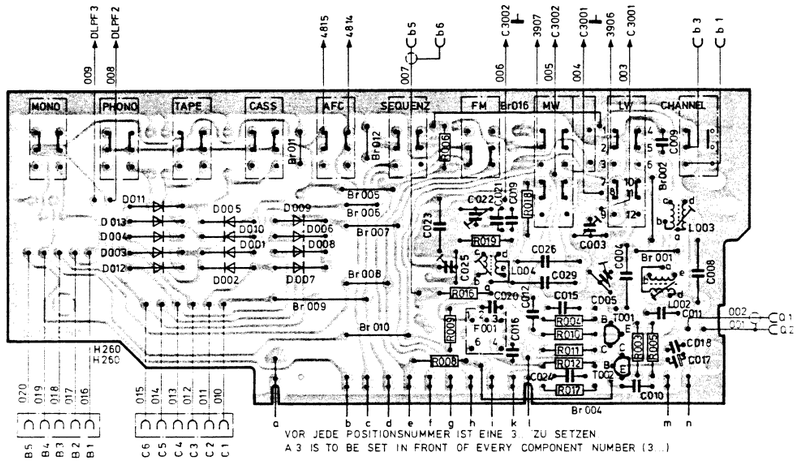


Lötseite
Solder Side

NF-Platte
AF Board

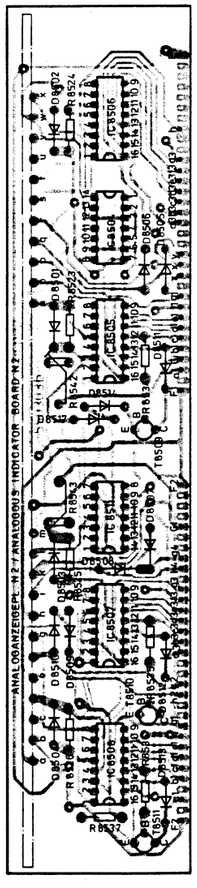


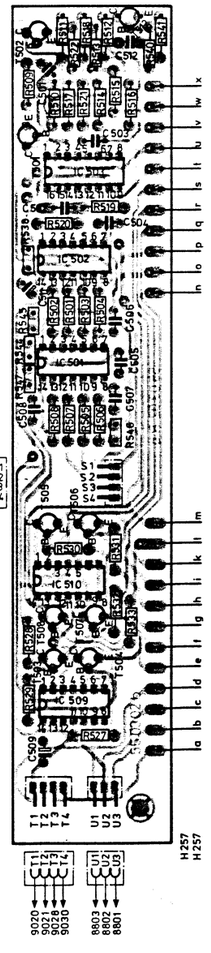
HF-Tastatur-Platte
RF Pushbutton Assy. Board



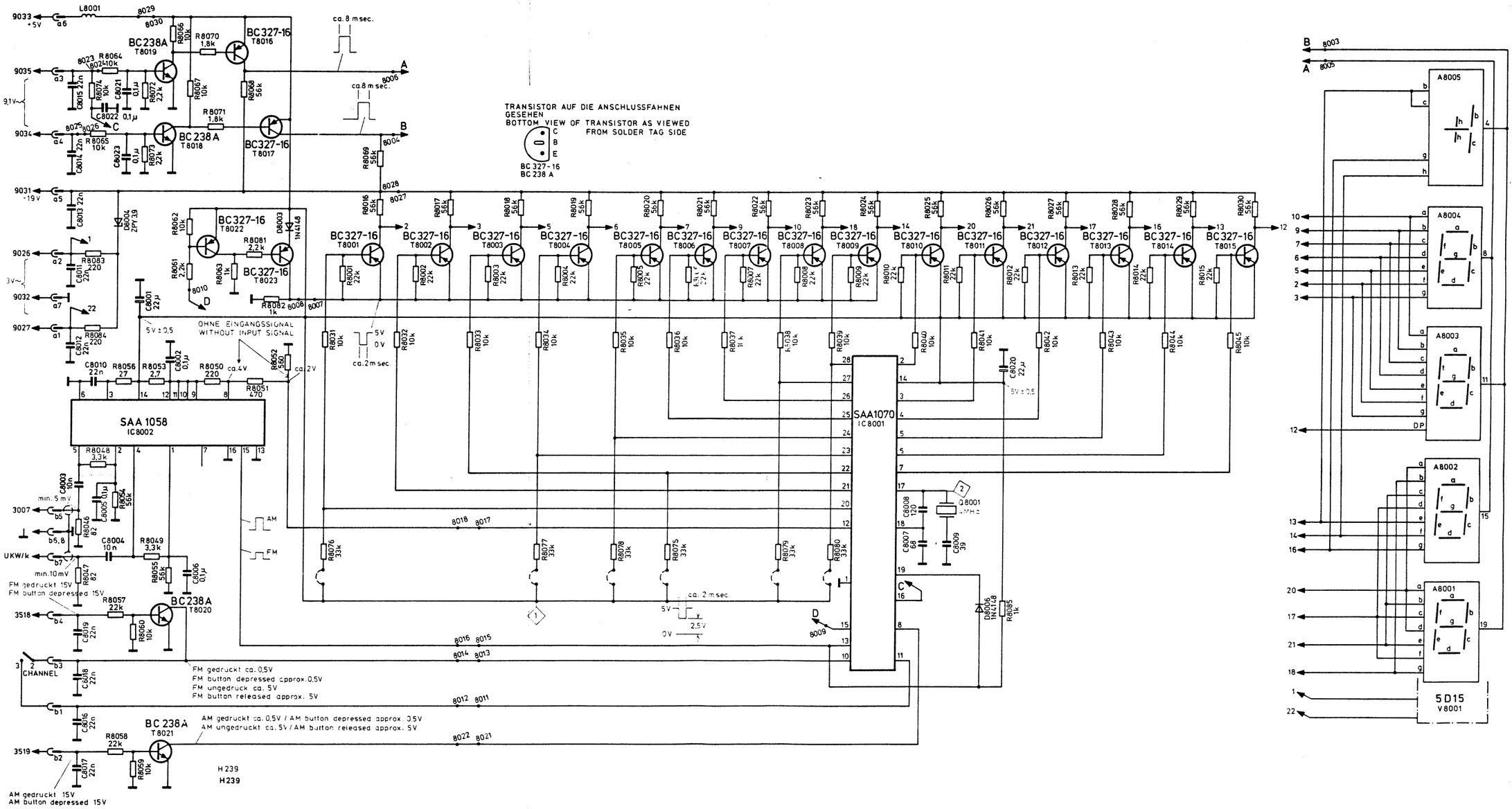
Analoganzeige-Platte N 1
Analogous Indicator Board N 1

Analoganzeige-Platte N 2
Analogous Indicator Board N 2





Frequenzzähler-Schaltbild – Frequency Counter Circuit Diagram



Recorder-Ersatzteile-Liste – Recorder Replacement Parts

Gegenstand		Bestell-Nr. Part No.	Description	
1. Halbleiter			**1. Semiconductors**	
Transistoren:			Transistors:	
T 5101, 5103	BC 328–40	3614 42 28	T 5101, 5103	BC 328–40
T 5102, 5104, 5105, 5106, 5112, 5114, 5115, 5116, 5117, 5404, 5408, 5409, 5451, 5452, 5453, 5454, 5455, 5505, 5506, 5703, 5704, 5711, 5712, 5713, 5714, 5715, 5717	BC 238 B	3614 01 22	T 5102, 5104, 5105, 5106, 5112, 5114, 5115, 5116, 5117, 5404, 5408, 5409, 5451, 5452, 5453, 5454, 5455, 5505, 5506, 5703, 5704, 5711, 5712, 5713, 5714, 5715, 5717	BC 238 B
T 5107, 5901, 5401, 5481	BC 308 B	3614 29 52	T 5107, 5901, 5401, 5481	BC 308 B
T 5108	BD 135–10	3616 12 28	T 5108	BD 135–10
T 5109, 5110, 5111, 5113, 5118, 5119, 5402, 5403, 5405	BC 328–16	3614 42 26	T 5109, 5110, 5111, 5113, 5118, 5119, 5402, 5403, 5405	BC 328–16
T 5406, 5407	BC 308–25	3614 42 27	T 5406, 5407	BC 308–25
T 5501, 5502	BC 550 C	3614 15 13	T 5501, 5502	BC 550 C
T 5503, 5504, 5701, 5702, 5705, 5706, 5707, 5708, 5709, 5710, 5716, 5801, 5802	BC 239 C	3614 18 65	T 5503, 5504, 5701, 5702, 5705, 5706, 5707, 5708, 5709, 5710, 5716, 5801, 5802	BC 239 C
T 5803, 5804, 5805, 5806	BF 245	3611 61 12	T 5803, 5804, 5805, 5806	BF 245
Dioden:			Diodes:	
D 5101, 5103, 5104, 5106, 5112, 5113, 5114, 5115, 5116, 5118, 5119, 5120, 5121, 5122, 5123, 5124, 5126, 5127, 5130, 5131, 5133, 5137, 5138, 5139, 5140, 5141, 5142, 5143, 5144, 5145, 5146, 5147, 5148, 5149, 5150, 5151, 5152, 5153, 5154, 5155, 5156, 5157, 5158, 5159, 5160, 5161, 5162, 5163, 5164, 5165, 5166, 5167, 5168, 5169, 5170, 5171, 5401, 5402, 5403, 5481, 5482, 5483, 5484, 5701, 5702, 5703, 5704, 5705, 5801, 5802, 5803, 5804, 5901, 5902	1 N 4148	3656 08 10	D 5101, 5103, 5104, 5106, 5112, 5113, 5114, 5115, 5116, 5118, 5119, 5120, 5121, 5122, 5123, 5124, 5126, 5127, 5130, 5131, 5133, 5137, 5138, 5139, 5140, 5141, 5142, 5143, 5144, 5145, 5146, 5147, 5148, 5149, 5150, 5151, 5152, 5153, 5154, 5155, 5156, 5157, 5158, 5159, 5160, 5161, 5162, 5163, 5164, 5165, 5166, 5167, 5168, 5169, 5170, 5171, 5401, 5402, 5403, 5481, 5482, 5483, 5484, 5701, 5702, 5703, 5704, 5705, 5801, 5802, 5803, 5804, 5901, 5902	1 N 4148
D 5102, 5105, 5128, 5129	AA 112	3662 01 01	D 5102, 5105, 5128, 5129	AA 112
D 5107, 5108, 5109, 5111, 5117	BY 133	3657 03 02	D 5107, 5108, 5109, 5111, 5117	BY 133
D 5110	ZPD 2.7	3653 17 51	D 5110	ZPD 2.7
D 5451, 5452, 5455, 5456, 5601, 5602	1 N 60	3662 08 01	D 5451, 5452, 5455, 5456, 5601, 5602	1 N 60
D 5453, 5454	BAV 17	3656 19 06	D 5453, 5454	BAV 17
Integrierte Schaltungen:			**Integrated circuits:**	
IC 1101	LM 3171	3768 17 54	IC 1101	LM 3171
IC 5101, 5102, 5103, 5104	MC 14011 B CP	3771 51 37	IC 5101, 5102, 5103, 5104	MC 14011 B CP
IC 5105	MC 14049 B CP	3773 51 09	IC 5105	MC 14049 B CP
IC 5501, 5502, 5503, 5603, 5801, 5802	MC 14016 B CP	3771 11 25	IC 5501, 5502, 5503, 5603, 5801, 5802	MC 14016 B CP
IC 5601, 5602	NE 545 B	3763 09 96	IC 5601, 5602	NE 545 B
2. Widerstände			**2. Resistors**	
Trimmerwiderstände:			Trimmer resistors:	
R 5115, 5420	100 k	3111 50 62	R 5115, 5420	100 k
R 5117	470 k	3111 50 72	R 5117	470 k
R 5123	100 Ω	3111 50 53	R 5123	100 Ω
R 5424, 5425	22 k	3111 50 68	R 5424, 5425	22 k
R 5434	470 Ω	3111 50 67	R 5434	470 Ω
R 5463, 5464	47 k	3111 50 70	R 5463, 5464	47 k
R 5533, 5534	22 k	3111 20 74	R 5533, 5534	22 k
R 5726	220 k	3111 21 82	R 5726	220 k
R 5815, 5816	10 k	3111 20 76	R 5815, 5816	10 k
R 5827, 5828	47 k	3111 20 77	R 5827, 5828	47 k
Drahtwiderstände:			Wire-wound resistors:	
R 5126	27 Ω 2 W	3133 17 12	R 5126	27 Ω 2 W
3. Spulen, Filter, Drosseln			**3. Coils, filters, chokes**	
L 5401	Filter	4545 84 50	L 5401	filter
L 5601, 5602	Drosseln	4557 83 91	L 5601, 5602	chokes
L 5603, 5604	Filter	4557 83 90	L 5603, 5604	filters
4. Sonstiges:			**4. Miscellaneous**	
Andruckrolle		7532 06 02	Pressure roller	
Antriebsriemen (Zähler)		7611 09 01	Drive belt (counter)	
Antriebsriemen (Schwungrad)		7611 08 01	Drive belt (flywheel)	
Aufnahme/Wiedergabekopf		4335 90 41	Record/playback head	
Cassettenklappe		8684 43 12	Cassette compartment lid	
Kühlblech		6525 08 14	Heat sink	
Kugel (2,5 mm ⌀)		7651 11 10	Ball (2.5 mm diameter)	
Löschkopf		4337 90 16	Erase head	
Leiterplatten			Printed boards	
Motorsteuerungsplatte		6915 20 04	Motor speed control board	
Cassettenfach-Tasterplatte		6914 13 23	Cassette compartment sensor board	
Tasterplatte		6914 13 15	Pushbutton board	
NF-Schalterplatte		6914 83 37	AF switch board	
Grundplatte		6914 13 29	Base board	
Wiedergabe-Verstärkerplatte		6914 13 24	Playback amplifier board	
Automatikplatte		6914 13 27	Automatic board	
DOLBY-Verstärkerplatte		6914 13 17	DOLBY amplifier board	
Aufsprech-Verstärkerplatte		6914 13 26	Recording amplifier board	
Tonkopf-Adapterplatte		5332 12 75	Sound head adapter board	
Magnet (Start)		4126 01 02	Magnet (START)	
Magnet (Pause)		4126 01 03	Magnet (PAUSE)	
Motor (Antrieb)		4432 01 20	Motor (drive assembly)	
Motor (Vor- und Rücklauf)		4432 02 02	Motor (forward wind, rewind)	
Steckerplatte für Aufnahme/Wiedergabekopf		6911 76 65	Female plug strip board for recording/playback head	
Tastschalter (Eject)		4115 06 51	Pushbutton switch (EJECT)	
Tastschalter (Stop, Record, Rücklauf, Play, Vorlauf, Pause/Norm, Pause/Fade)		4115 06 25	Pushbutton switch (Stop, Rec. rewind, play, forward wind, Pause/Norm, Pause/Fade)	

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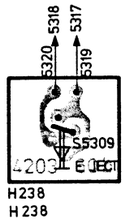
SERVICE-INFORMATION

HC 9071

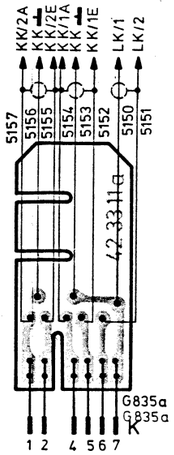
Typ 5253 11 01
SILBER/SCHWARZ

RECORDER Schaltbild — Circuit Diagram
Leiterplatten — Printed Boards
Ersatzteile-Liste siehe Blatt 2
Replacement Parts see Sheet 2

Lötseite
Solder Side



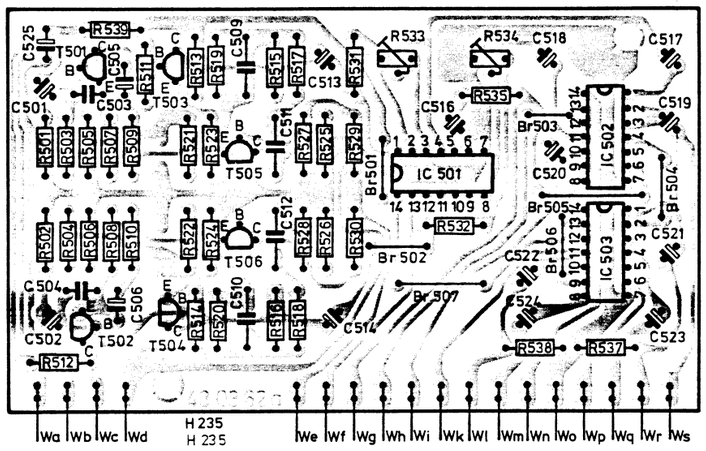
Cassettenfach-Taster-Platte
Cassette Compartment Sensor Board



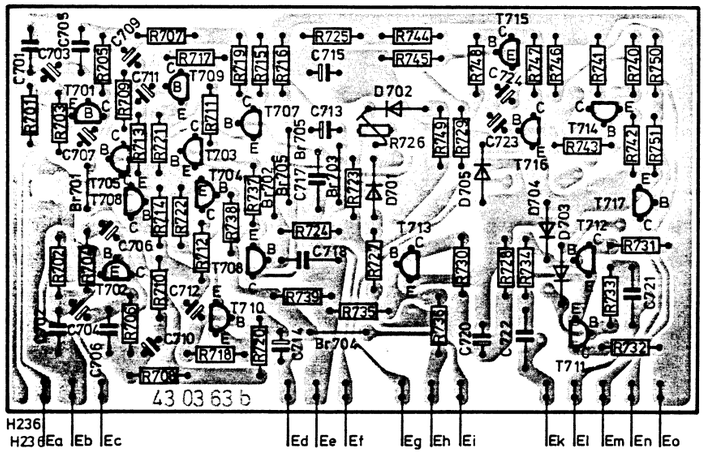
Tonkopf-Adapter-Platte
Sound Head Adapter Board

Wiedergabe-Verstärker-Platte
Playback Amplifier Board

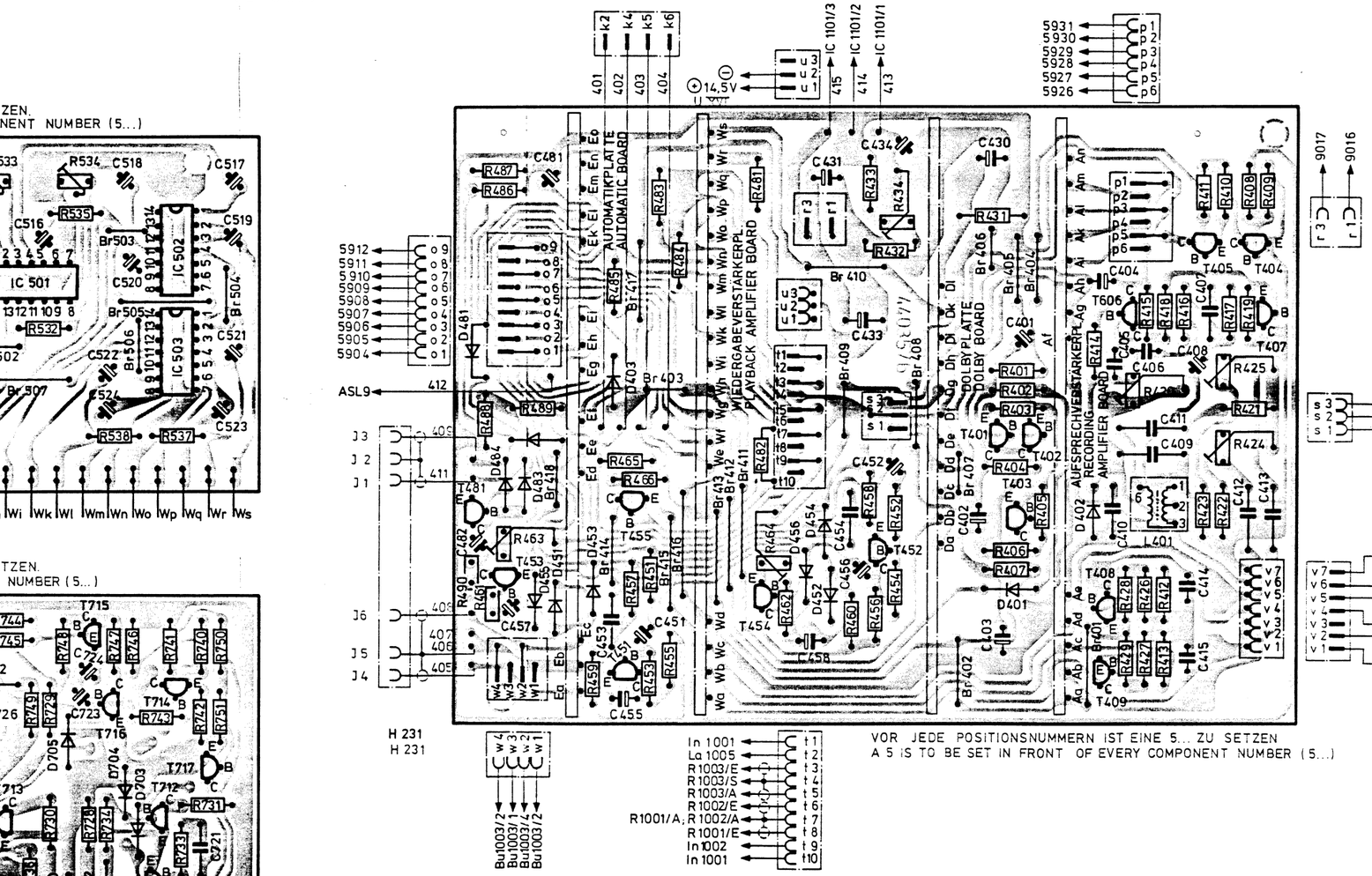
VOR JEDE POSITIONSNUMMER IST EINE 5... ZU SETZEN.
A 5 IS TO BE SET IN FRONT OF EVERY COMPONENT NUMBER (5...)



VOR JEDE POSITIONSNUMMER IST EINE 5... ZU SETZEN.
A 5 IS TO BE SET IN FRONT OF EVERY COMPONENT NUMBER (5...)



Grund-Platte
Base Board



VOR JEDE POSITIONSNUMMERN IST EINE 5... ZU SETZEN
A 5 IS TO BE SET IN FRONT OF EVERY COMPONENT NUMBER (5...)

Automatik-Platte
Automatic Board

Bei Reparaturen gültige Sicherheitsvorschriften beachten.

Aufnahme/ Wiedergabe-Verstärker-Schaltbild = Recording/ Playback-Amplifier Circuit Diagram

WIEDERGABE-VORVERSTÄRKER
PLAYBACK PREAMPLIFIER

AUFNAHME-ENDVERSTÄRKER
RECORDING OUTPUT AMPLIFIER

LÖSCHOSZILLATOR
ERASE OSZILLATOR

DOLBY-VERSTÄRKER
DOLBY AMPLIFIER

NF-TEIL
AF SECTION

NF-SCHALTERPLATTE
AF SWITCH BOARD

NF-BEREICHSANZEIGE
AF BAND INDICATOR

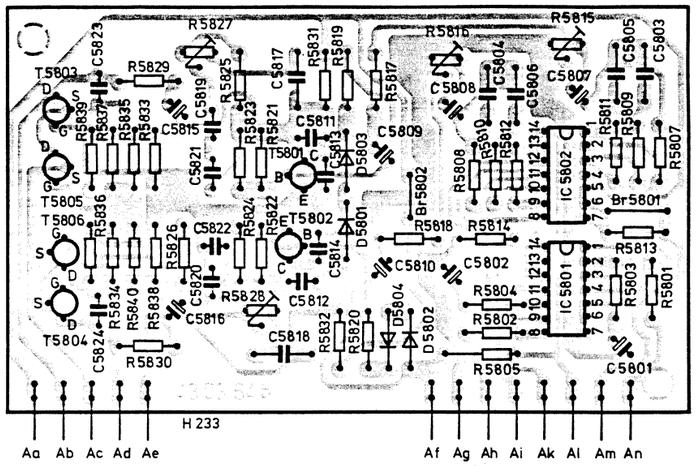
BELASTBARKEIT DER WIDERSTÄNDE
POWER RATING OF RESISTORS
0,33 W

FE-CR | CR | FE-S | FE | ALC | DOLBY

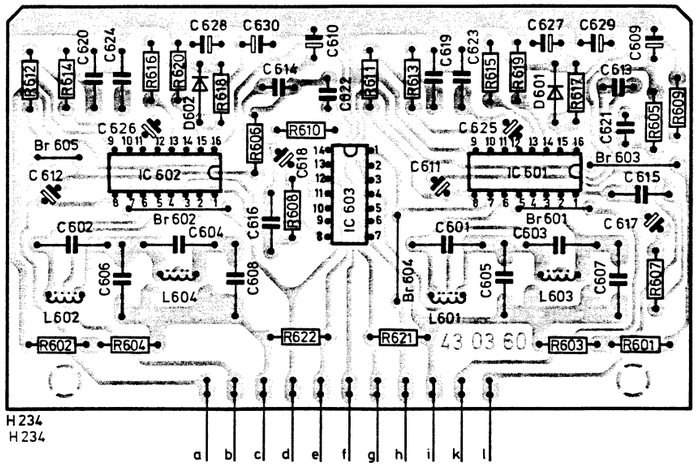
BEI BREMSEN
AT BRAKING

PLAY | RECORD | BREMSEN BRAKING

Lötseite
Solder Side

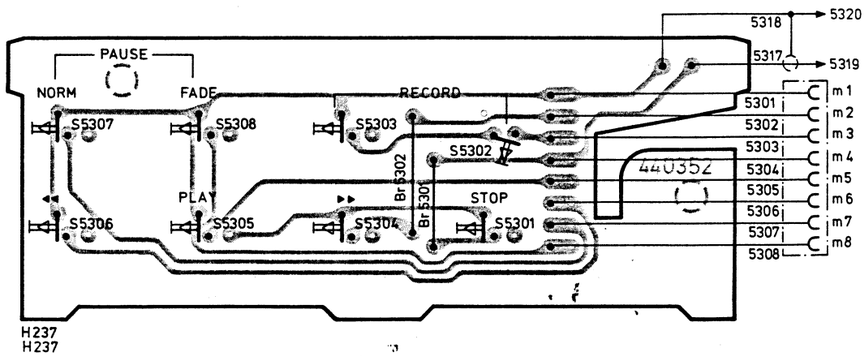


Aufsprech-Verstärker-Platte
Recording Amplifier Board



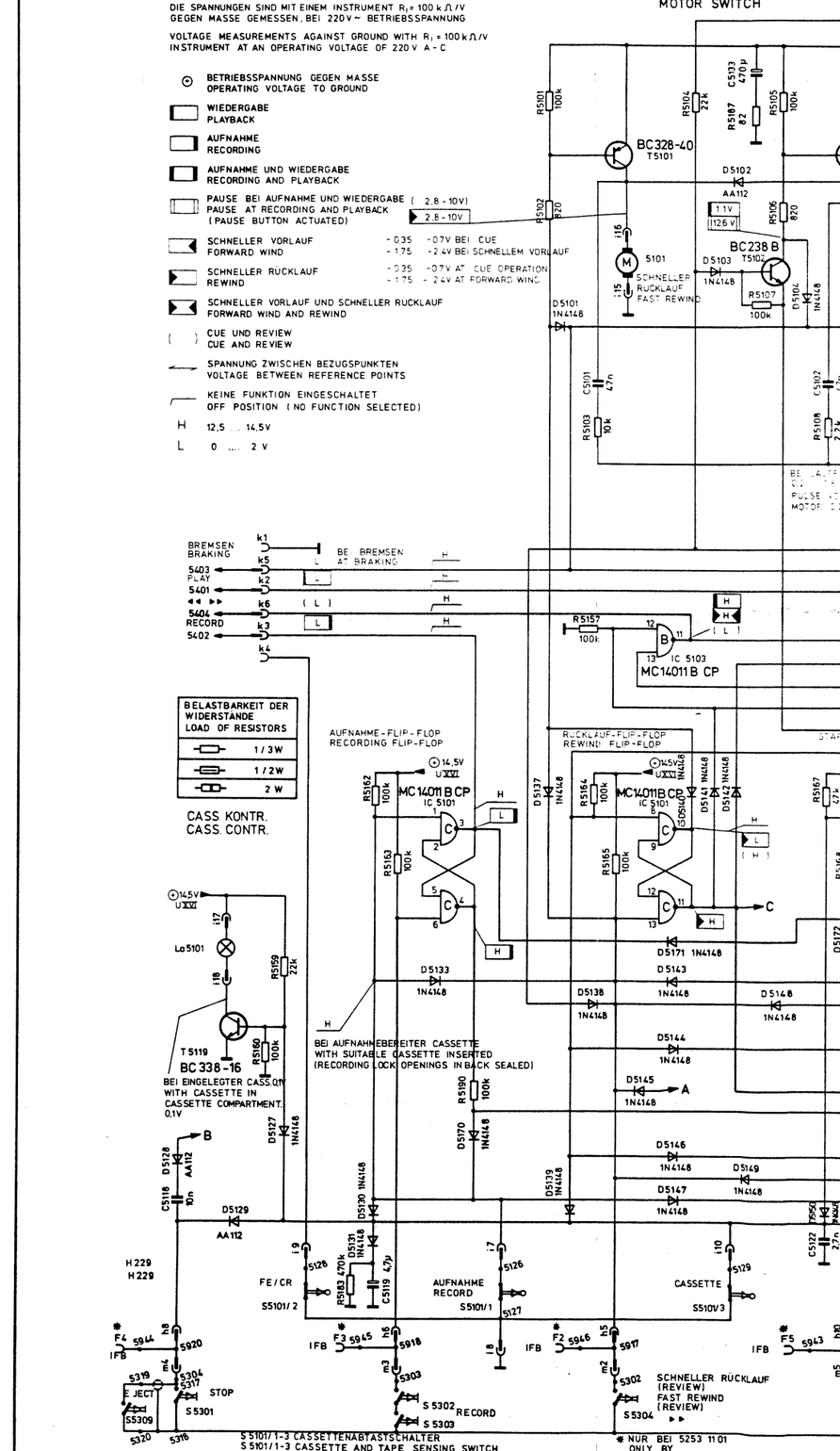
DOLBY-Verstärker-Platte
DOLBY Amplifier Board

VOR JEDE POSITIONSNUMMER IST EINE 5... ZU SETZEN
A1 IS TO BE SET IN FRONT OF EVERY COMPONENT NUMBER (5...)



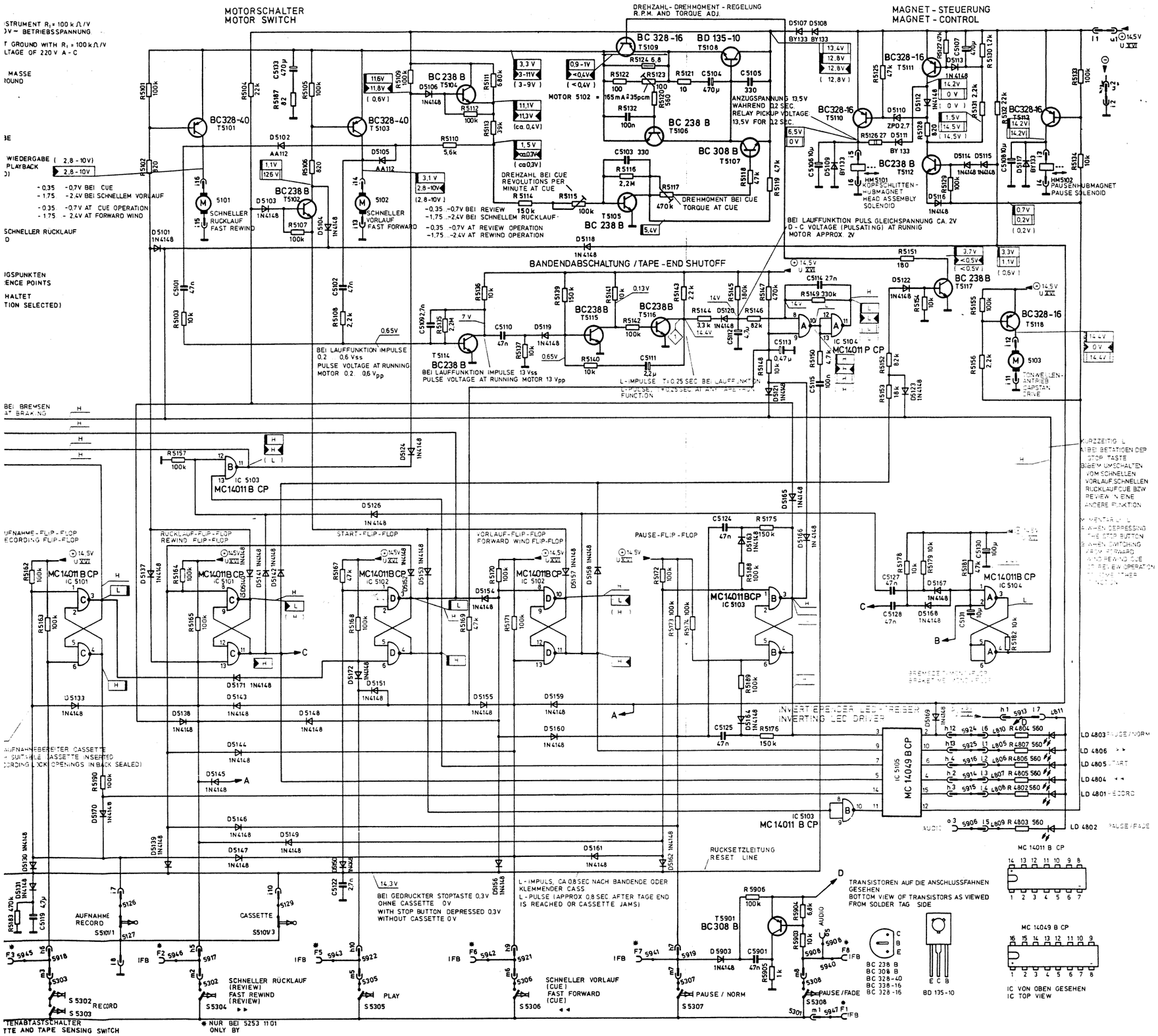
Taster-Platte
Pushbutton Board

Motorsteuerungs-Schaltbild — Motor Speed Control Circuit Diagram



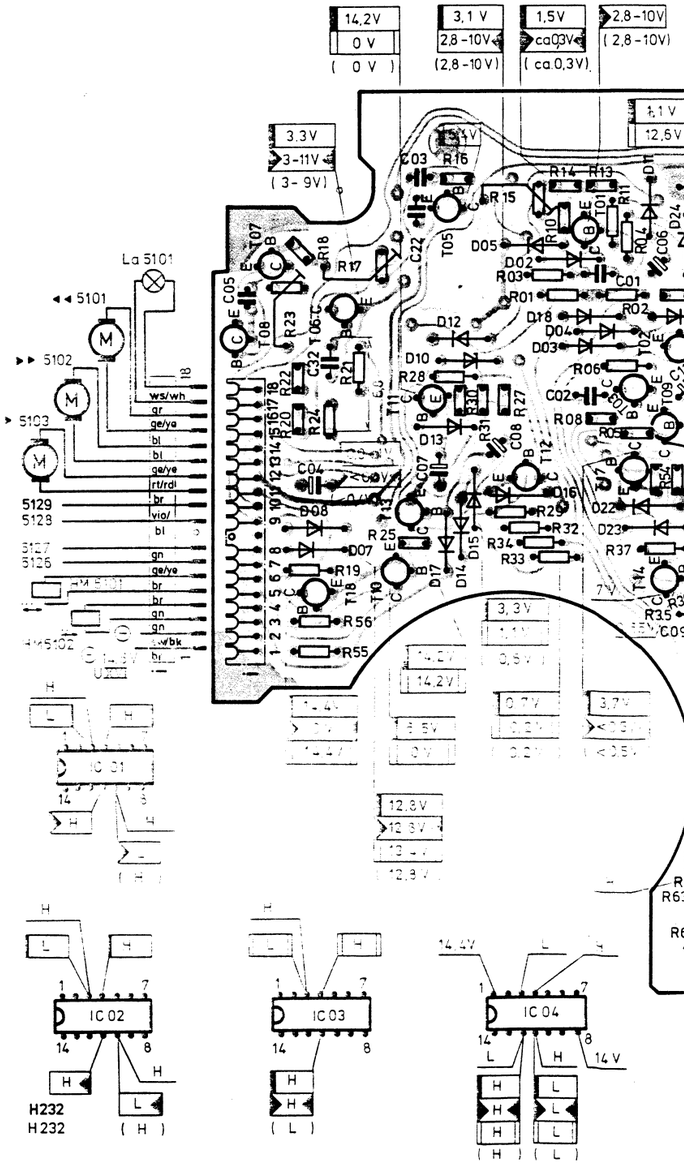
tor Speed Control Circuit Diagram

Leiterplatte — Printed Board

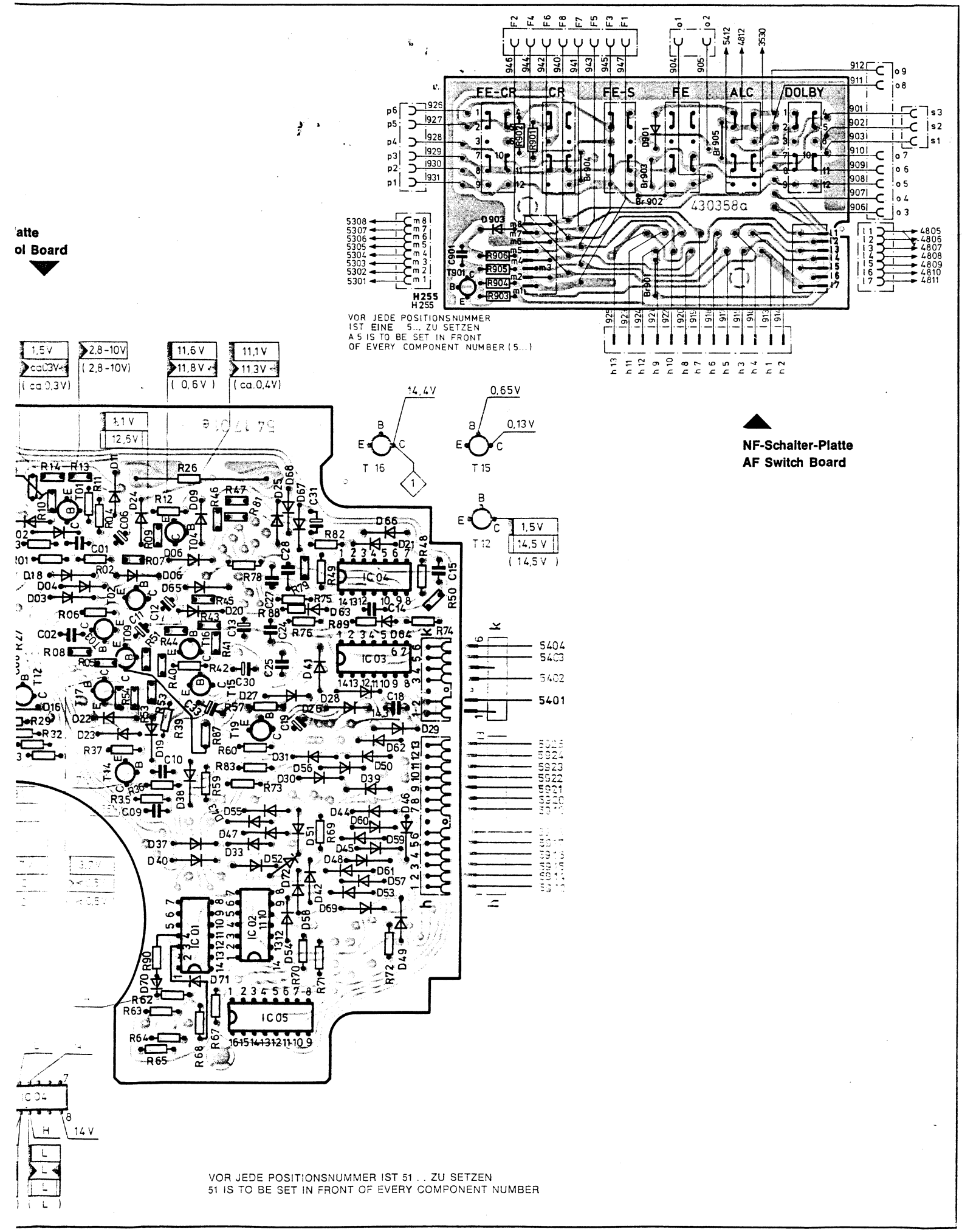


Lötseite
Solder Side

Motorsteuerungs-Platte
Motor Speed Control Board



atte
ol Board



NF-Schalter-Platte
AF Switch Board

VOR JEDE POSITIONSNUMMER IST 51 .. ZU SETZEN
51 IS TO BE SET IN FRONT OF EVERY COMPONENT NUMBER

ITT

SERVICE-INFORMATION

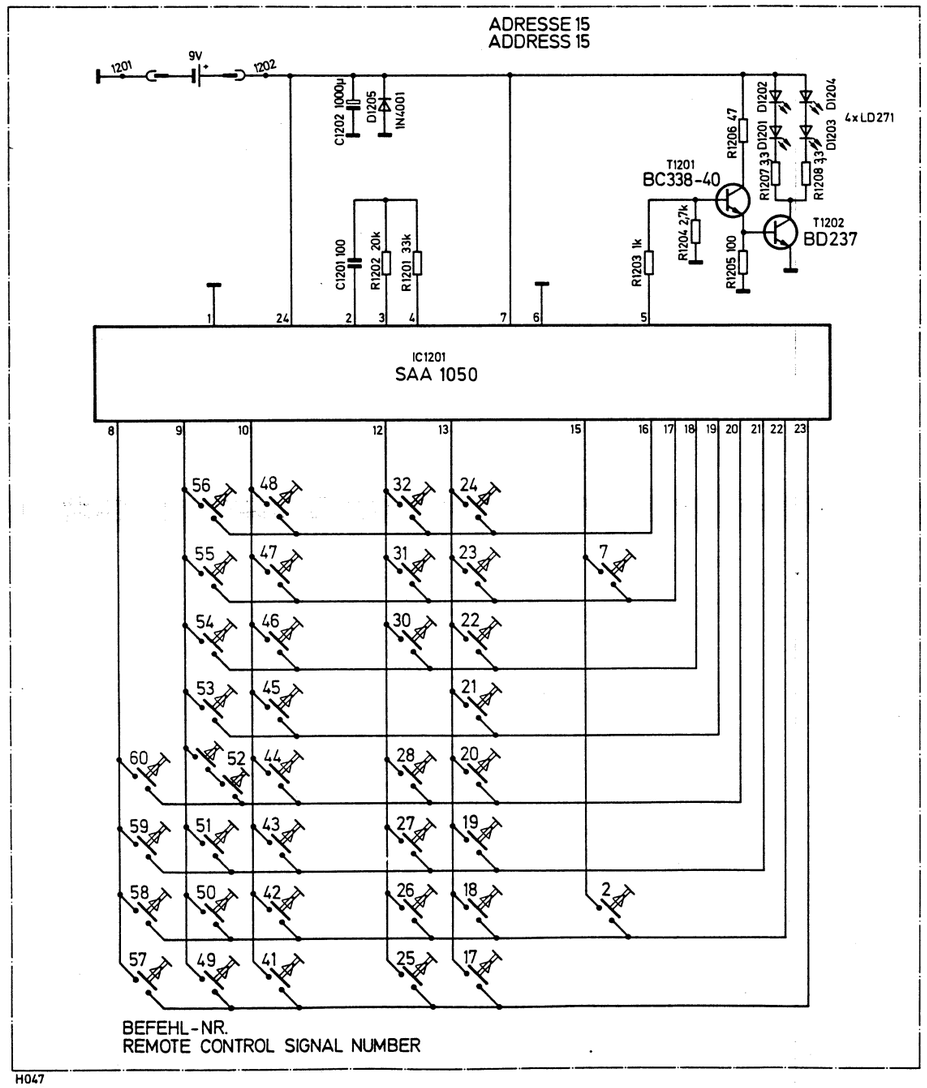
HC 9071

Typ 5253 11 01
SILBER/SCHWARZ

FERNBEDIENUNG · REMOTE CONTROL
Schaltbilder — Circuit Diagrams
Leiterplatten — Printed Boards
Ersatzteile-Liste — Replacement Parts

Schaltbild — Circuit Diagram

Sender-Teil — Transmitter Unit



H047
H047

Ersatzteile-Liste — Replacement Parts

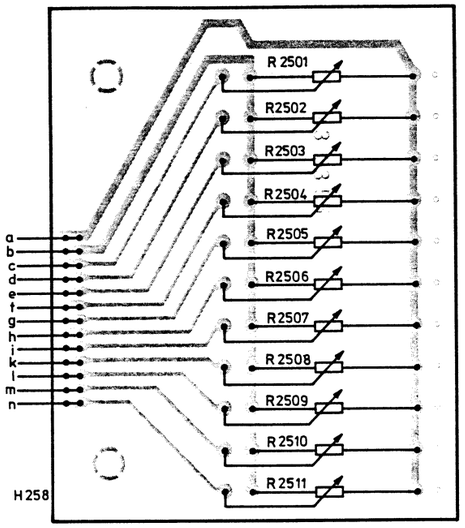
Gegenstand		Bestell-Nr. Part No.	Description	
EMPFÄNGER IFB			**RECEIVER IFB**	
1. Halbleiter			**1. Semiconductors**	
Transistoren:			Transistors:	
T 1401, 1402, 1403, 1404, 1405, 1605	BC 238 C	3614 01 23	T 1401, 1402, 1403, 1404, 1405, 1605	BC 238 C
T 1406	BC 308 B	3614 29 52	T 1406	BC 308 B
T 1407, 1408, 1409, 1410, 1411, 1412, 1413, 1414, 1415, 1419	BC 238 A	3614 01 21	T 1407, 1408, 1409, 1410, 1411, 1412, 1413, 1414, 1415, 1419	BC 238 A
T 1416	BC 238 B	3614 01 22	T 1416	BC 238 B
T 1418, 8801	BC 308 C	3614 29 53	T 1418, 8801	BC 308 C
T 1601, 1602, 1603	BC 550 C	3614 15 13	T 1601, 1602, 1603	BC 550 C
T 1604	BC 309 C	3614 30 53	T 1604	BC 309 C
Dioden:			Diodes:	
D 1408, 1409, 1410, 1422, 1423, 1424, 1425, 1426, 1427, 1428, 1429, 1430, 1431, 1432, 1433, 1434, 1435, 1436, 1437, 1438, 1439, 1440, 1441, 1442, 1443, 1445, 1446, 1447, 1448, 1602	1 N 4148	3656 08 10	D 1408, 1409, 1410, 1422, 1423, 1424, 1425, 1426, 1427, 1428, 1429, 1430, 1431, 1432, 1433, 1434, 1435, 1436, 1437, 1438, 1439, 1440, 1441, 1442, 1443, 1445, 1446, 1447, 1448, 1602	1 N 4148
D 1444	AA 143	3662 15 01	D 1444	AA 143
D 1601 Fotodiode	BPW 41	3683 10 30	D 1601 Photo diode	BPW 41
Integrierte Schaltungen:			Integrated circuits:	
IC 1401	SAA 1051	3779 25 05	IC 1401	SAA 1051
IC 1402, 1403	TDB 1030	3766 14 40	IC 1402, 1403	TDB 1030
IC 1404	SAA 1071	3779 25 09	IC 1404	SAA 1071
IC 1405	HEF 4514 P	3773 51 14	IC 1405	HEF 4514 P
IC 1406	HEF 4013 BP	3772 02 50	IC 1406	HEF 4013 BP
IC 8801	SAB 3211 Z	3773 11 36	IC 8801	SAB 3211 Z
2. Widerstände			**2. Resistors**	
Trimmerwiderstände:			Trimmer resistors:	
R 1412, 1414, 1416	47 k	3111 38 01	R 1412, 1414, 1416	47 k
R 8808	10 k	3111 50 59	R 8808	10 k
Potentiometer:			Potentiometers:	
R 2501–2511	220 k	3118 95 33	R 2501–2511	220 k
3. Spulen, Quarze			**3. Coils, Quartz**	
L 1401	Drossel	4557 08 06	L 1401	Choke
Q 1401	Quarz	4421 31 54	Q 1401	Quartz
4. Sonstiges			**4. Miscellaneous**	
Leiterplatten:			Printed Boards:	
Empfängerplatte kpl.		5888 09 51	Receiver board, compl.	
Verstärker, kpl.		5888 09 52	Amplifier, compl.	
TA-Steuerplatte		6914 83 22	Phono control board	
Festsenderanzeigeplatte		6914 83 07	FM presets indicator board	
Festsenderplatte		6914 83 02	FM preset board	
Deckel für IFB-Empfänger		8315 35 01	**Cover lid for remote control receiver**	
Rahmen für IFB-Empfänger		8315 24 01	**Frame for remote control receiver**	
Isolierplatte		8235 35 01	Insulating plate	
Gehäuse für Verstärker		6536 21 04	Amplifier casing	
Deckel für Verstärker		8332 05 01	Lid for amplifier	
Ziffernanzeige	A 8801	4365 25 14	Numbers display	A 8801
SENDER IFB			**TRANSMITTER IFB**	
1. Gehäuse und Zubehör			**1. Cabinet and accessories**	
IFB-Fernbedienung kpl.		5653 08 01	Remote control, compl.	
Gehäuseoberteil		6138 25 53	Cabinet top	
Gehäuseunterteil		6138 26 15	Cabinet bottom	
Fußstopfen hinten		8642 01 54	Foot pad behind	
Fußstopfen vorn		8642 01 53	Foot pad before	
Taste AUS		6315 22 11	Button OFF	
Taste (37 x)		6315 22 10	Button (37 x)	
Fenster (Oberteil)		6466 32 01	Plexiglass cover (remote control)	
Schutzdeckel (für LED)		6466 30 02	Protective cover (for LED diode)	
2. Halbleiter			**2. Semiconductors**	
Transistoren:			Transistors:	
T 1201	BC 338–40	3614 41 40	T 1201	BC 338–40
T 1202	BD 237	3616 17 40	T 1202	BD 237
Dioden und Leuchtdioden			**Diodes and LED diodes**	
D 1205	1 N 4001	3657 11 05	D 1205	1 N 4001
D 1201, 1202, 1203, 1204	LD 271	3682 01 01	D 1201, 1202, 1203, 1204	LD 271
Integrierte Schaltungen:			**Integrated circuits:**	
IC 1201	SAA 1050	3779 25 01	IC 1201	SAA 1050
3. Sonstiges			**3. Miscellaneous**	
Leiterplatte		6924 11 02	Printed board	
Batterie-Anschluß		4148 03 61	Battery connection	
Kontaktplatte 42-fach		4188 02 14	Contact board 42-fold	
LED-Halter		8681 91 01	Holder LED	
Batterie		4424 05 01	Battery	

Bei Reparaturen gültige Sicherheitsvorschriften beachten.

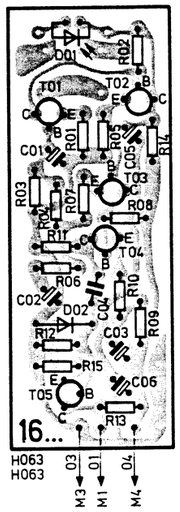
Änderungen vorbehalten — Modifications reserved

Lötseite
Solder Side

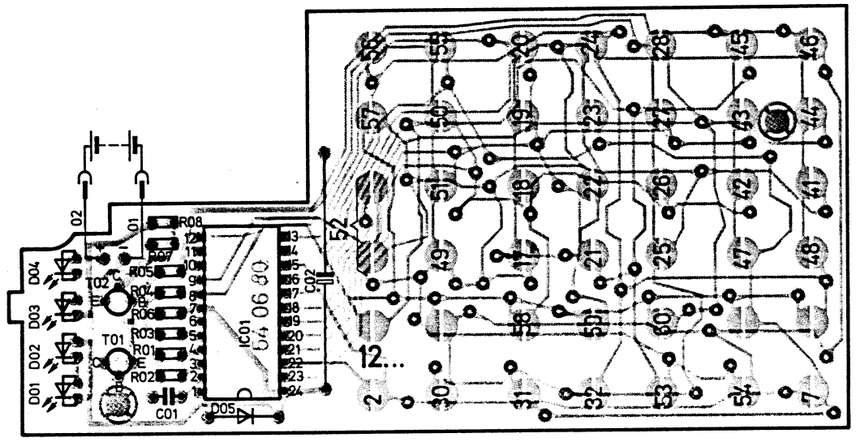
Festsender-Platte
FM Presets Board



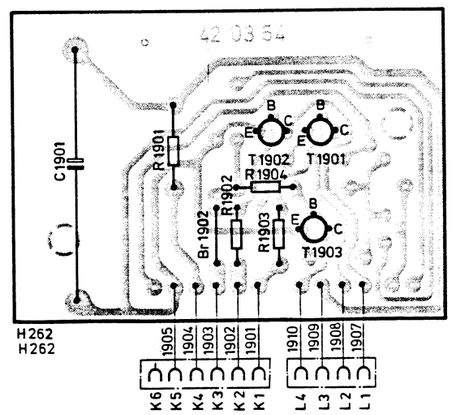
Verstärker-Platte
Amplifier Board



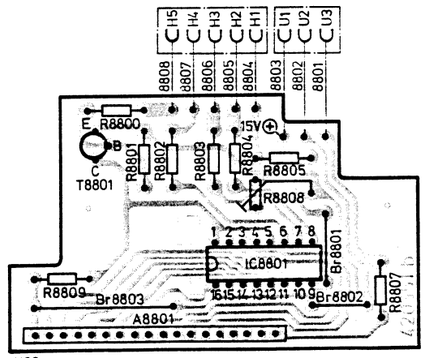
Sender-Platte
Transmitter Board

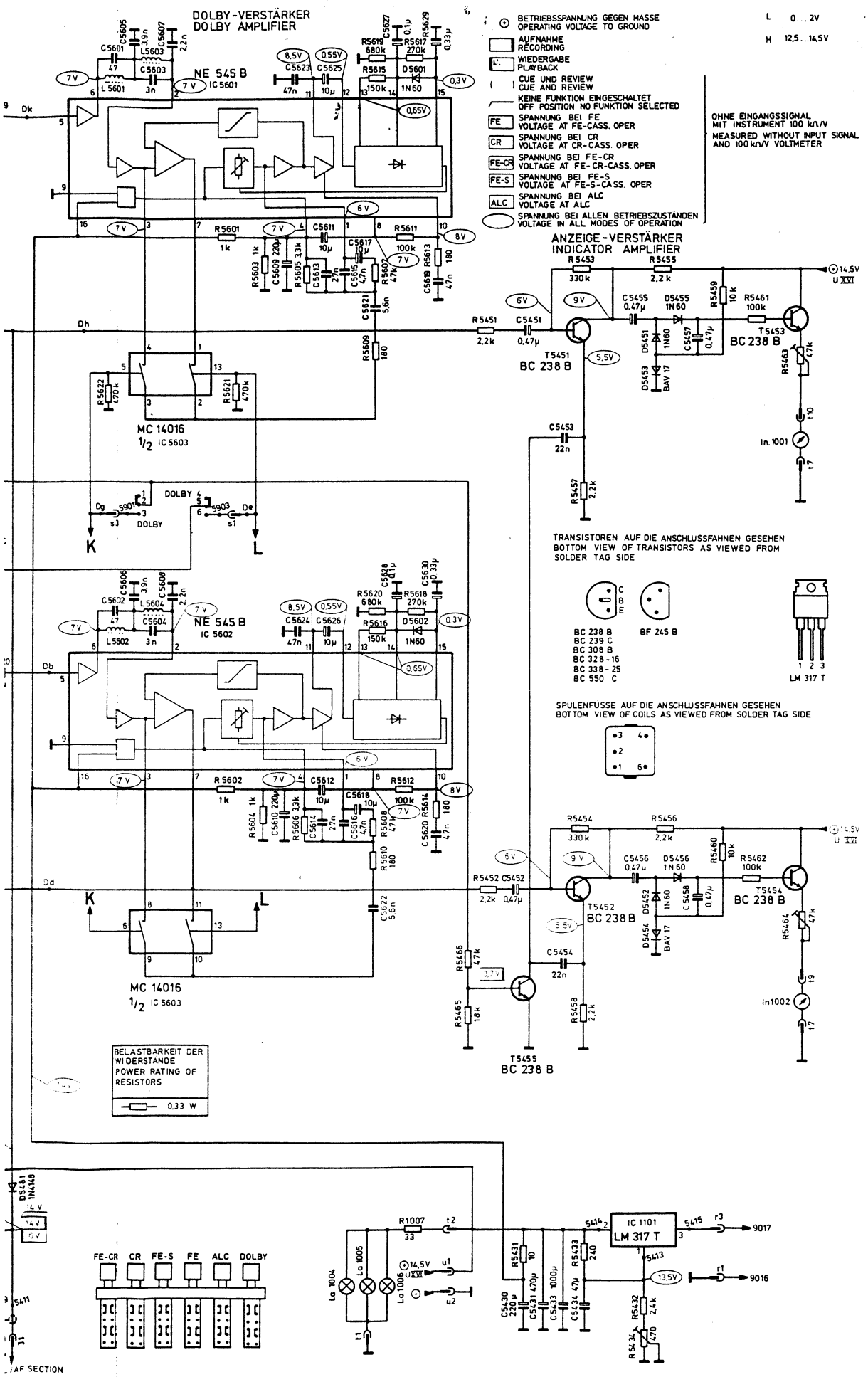


TA-Steuer-Platte
Phono Control Board



Festsender-Anzeige-Platte
FM Presets Indicator Board





Änderungen vorbehalten — Modifications reserved

FERNBEDIENUNGSEMPFÄNGER
REMOTE CONTROL RECEIVER

IR - SIGNAL

MATRIX FÜR DIREKTBEDIENUNG
DIRECT CONTROL MATRIX

13 x 1N4148

TAKTLEITUNGEN
CLOCK

DATENBUS

LAUTSTÄRKE
VOLUME

HÖHEN
TREBLE

TIEFEN
BASS

BALANCE

VOREINSTELLER
PRE-ADJUSTER

MONO/STEREO DLPF

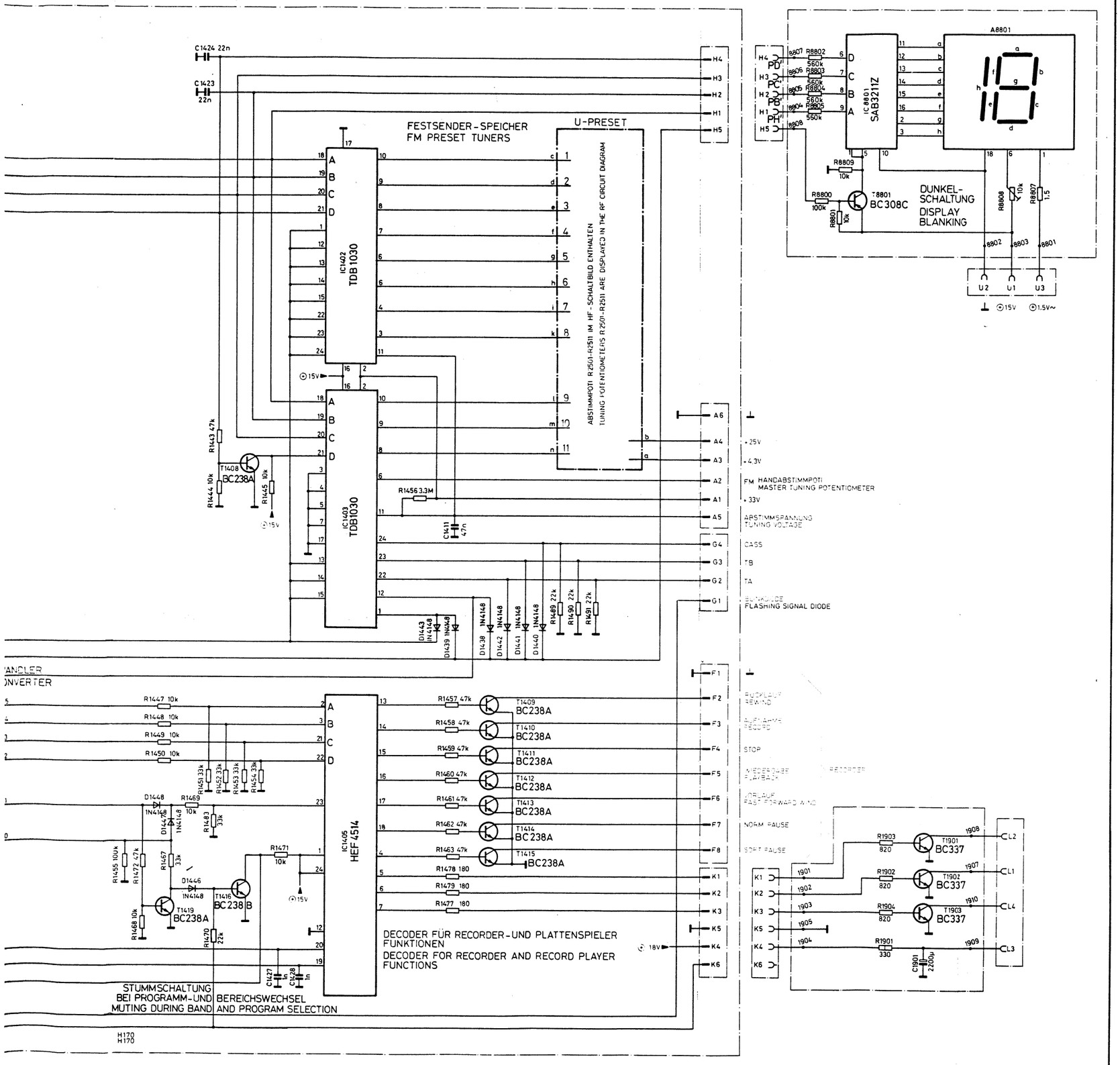
SERIEN-PARALLEL-WANDLER
SERIES/PARALLEL CONVERTER

STAND-BY SCHALTSTUFE
STANDBY CIRCUIT

BLINKDIODEN-SCHALTUNG
LED DIODE FLASHING CIRCUIT

STUMMSCHALTUNG
BEI PROGRAMM-UND BEREICHSWECHSEL
MUTING DURING BAND AND PROGRAM SELECTION

H062
H063
H168
H169
H170
H170



Empfänger-Platte
Receiver Board

Lötseite
Solder Side

VOR JEDE POSITIONSNUMMER IST 14 ZU SETZEN.
14 IS TO BE SET IN FRONT OF EVERY COMPONENT NUMBER (3 . . .)